Case No.: 5048

U.S. PTO Customer No. 25280

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of the claims in the application:

- (Currently amended) A thermal textile comprising: at least one non-conducting yarn;
 - at least one positive temperature coefficient (PTC) yarn, said PTC yarn having a core yarn and a positive temperature coefficient of resistance (PTCR) sheath, the PTCR sheath including distinct electrical conductors intermixed within a thermally expansive matrix, wherein the thermally expansive matrix has a higher coefficient of expansion than the distinct electrical conductors, wherein the sheath is coated or extruded onto the core,
 - and wherein said core yarn comprises nonconductive multifilaments or staple fibers;
 - said non-conductive yarn and said PTC yarn being combined into a heating fabric.
- 2. (Original) The thermal textile according to claim 1, wherein said heating fabric is a woven fabric.
- 3. (Original) The thermal textile according to claim 1, wherein said heating fabric is a knitted fabric.
- 4. (Previously presented) The thermal textile according to claim 3, wherein said PTC yarn forms loops of said knitted fabric.
- 5. (Previously presented) The thermal textile according to claim 3, wherein said PTC yarn is laid into loops of said non-conductive yarn.
- 6. (Original) The thermal textile according to claim 1, further including at least one conductive lead electrically connecting to said PTC yarn.
- 7. (Original) The thermal textile according to claim 6, wherein said lead comprises a conductive yarn and wherein said conductive yarn forms loops of said knitted fabric.

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8. (Original) The thermal textile according to claim 6, wherein said lead is laid into loops of said non-conductive yarn.

- 9. (Previously presented) The thermal textile according to claim 1, wherein the sheath comprises a polymer selected from the group consisting of polyethylene, halo-deriviatives of polyethylene, ethylene ethylacrylate, and polyolefin.
- 10. (Previously presented) The thermal textile according to claim 1, wherein the PTCR sheath is cross-linked.
- 11. (Previously presented) The thermal textile according to claim 1, wherein the PTCR sheath comprises a thermoset polymer.
- 12. (Previously presented) The thermal textile according to claim 1, wherein the PTCR sheath will cut off conductivity of the PTCR sheath at a selected temperature.